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STIC Search Report

STIC Database Tracking Number: 132166

TO: James Tang Location: 5C18 Art Unit: 2122

Friday, September 10, 2004

Case Serial Number: 09/710948

From: David Holloway Location: EIC 2100

PK2-4B30

Phone: 308-7794

david.holloway@uspto.gov

Search Notes

Dear Examiner Tang,

Attached please find your search results for above-referenced case. Please contact me if you have any questions or would like a re-focused search.

David



Green, Shirelle

From:

Unknown@Unknown.com

Sent:

Thursday, September 09, 2004 6:18 PM

To: Subject: STIC-EIC2100 Generic form response

ResponseHeader=Commercial Database Search Request

AccessDB#= 132166

LogNumber= 40

Searcher= _____

SearcherPhone= _____

SearcherBranch=

MyDate=Thu Sep 9 18:17:38 EDT 2004

submitto = STIC-EIC2100@uspto.gov

Name=James Tang

Empno=79879

Phone=305-4866

Artunit=2122

Office=5C18

Serialnum=09/710,948

Earliest=11/13/2000

OtherDate=

Format1=paper

Already1=USP

Appl. No.: 09/710,948 Filed: November 13, 2000

APPENDIX "AA"

What is claimed is:

1. (previously presented) A method of identifying a global breakpoint for debugging computer software, said method including the steps of:

receiving a file name for an executable image file, wherein the executable image file is loaded in memory of a computer system and the global breakpoint is to be placed in the image for executing by the computer system;

receiving a symbol expression for a location in the executable image file where the global breakpoint is to be placed;

passing the symbol expression and the file name to a first operating system module running on the computer system;

receiving a file offset corresponding to the symbol location from the first operating system module;

passing the file name for the executable image file to a second operating system module; receiving a file identifier from the second operating system module, wherein the file identifier is used by the operating system for uniquely identifying the executable file in the computer system memory; and

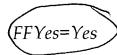
representing said global breakpoint in code of said software using the received file identifier of the executable image file and the received offset in said executable file.

- 2. (original) The method according to claim 1, wherein said file identifier is a file name.
- 3. (previously presented) The method according to claim 1, wherein said file identifier is an inode of a Unix operating system.
- 4. (original) The method according to claim 1, wherein said file identifier is a file control block of a non-Unix operating system.
- 5. (original) The method according to claim 1, further including the step of resolving a virtual address of said code to said file identifier and said offset.

Already2=DWPI

'Already3=EPO

Already10=



Searchtopic=Use of operating system modules to determine actual memory locations for instruction of an executable image loaded in a target computer system and inserting these location in the executable image.

Comments=

send=SEND

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S2
            OINT OR EMULATOR?
                EXECUTABLE() IMAGE?
S3
                EMBED? OR WITHIN OR INTEGRAT? OR INTEGRAL OR BUILT()"IN"
S4
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S5
           14
                S1 AND S3
S6
              S2(N)S4
          759
S7
              S1 AND S7
S8
          43
               S8 OR S6 OR S5
S9
           71
              RD (unique items)
           64
S10
              S10 NOT PY>2000
S11
           56
           56 S11 NOT PD>20001113
S12
       8:Ei Compendex(R) 1970-2004/Aug W5
File
         (c) 2004 Elsevier Eng. Info. Inc.
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File 111:TGG Natl.Newspaper Index(SM) 1979-2004/Sep 10
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          (c) 2004 NTIS, Intl Cpyrght All Rights Res
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File 34:SciSearch(R) Cited Ref Sci 1990-2004/Sep W1
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File 62:SPIN(R) 1975-2004/Jul W2
          (c) 2004 American Institute of Physics
File 99: Wilson Appl. Sci & Tech Abs 1983-2004/Aug
          (c) 2004 The HW Wilson Co.
File 95:TEME-Technology & Management 1989-2004/Jun W1
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12/5/1 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
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04823134 E.I. No: EIP97093836950

Title: Implementation of checkpoints mechanism in PVM parallel Debugging environment

Author: Huang, Ning; Jin, Maozhong; Ma, Wenbin

Corporate Source: Beijing Univ of Aeronautics and Astronautics, Beijing,

Source: Beijing Hangkong Hangtian Daxue Xuebao/Journal of Beijing University of Aeronautics and Astronautics v 23 n 1 Feb 1997. p 93-97

Publication Year: 1997

CODEN: BHHDE8 ISSN: 1001-5965

Language: Chinese

Document Type: JA; (Journal Article) Treatment: T; (Theoretical)

Journal Announcement: 9711W2

Abstract: A checkpoint mechanism is studied which is used widely in process migrating, load balancing and fault tolerance in parallel programs. An implementation of the checkpoint mechanism in a parallel debugger which uses global break - points to ensure the consistence of checkpoints is presented, and the implementation method in PVM environment is discussed, in order to provide a method to debug PVM parallel programs quickly and conveniently. (Edited author abstract) 3 Refs.

Descriptors: *Computer debugging; Fault tolerant computer systems;

Parallel processing systems; Computer programming

Identifiers: Checkpoints; Parallel virtual machines

Classification Codes:

723.1 (Computer Programming); 722.4 (Digital Computers & Systems)

723 (Computer Software); 722 (Computer Hardware)

72 (COMPUTERS & DATA PROCESSING)

12/5/3 (Item 3 from file: 8) DIALOG(R) File 8:Ei Compendex(R) (c) 2004 Elsevier Eng. Info. Inc. All rts. reserv. E.I. No: EIP96063221389 04431423 Title: Event and state-based debugging in TAU: a prototype Author: Shende, Sameer; Cuny, Janice; Hansen, Lars; Kundu, Joydip;

McLaughry, Stephen; Wolf, Odile Corporate Source: Univ of Oregon, Eugene, OR, USA

Conference Title: Proceedings of the SPDT'96: SIGMETRICS Symposium on

Parallel and Distributed Tools

USA Conference Date: PA, Philadelphia, Location: Conference 19960522-19960523

Sponsor: ACM

E.I. Conference No.: 44815

Source: Proceedings of the SPDT: SIGMETRICS Symposium on Parallel and Distributed Tools 1996. ACM, New York, NY, USA. p 21-30

Publication Year: 1996

CODEN: 002380 Language: English

Treatment: G; (General Review); Document Type: CA; (Conference Article)

T; (Theoretical)

Journal Announcement: 9608W3

Abstract: Parallel programs are complex and often require a multilevel debugging strategy that combines both event- and state-based debugging. We report here on preliminary work that combines these approaches within the TAU program analysis environment for pC plus plus . This work extends the use of event-based modeling to object-parallel languages, provides an alternative mechanism for establishing meaningful global breakpoints object-oriented languages, introduces the TAU program interaction and control infrastructure, and provides an environment for the assessment of mixed event- and state-based strategies. (Author abstract) 23 Refs.

Descriptors: *Program debugging; Software prototyping; Computer simulation; Object oriented programming; Codes (symbols); Coding errors; Visualization

Identifiers: Parallel program; Ariadne debugger

Classification Codes:

723.1 (Computer Programming); 723.5 (Computer Applications); 723.2 (Data Processing)

723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING)

12/5/35 (Item 8 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.
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00210435 90CP02-003

Advanced debugging techniques Employ these sophisticated strategies to reduce debugging time

Intersimone, David

Computer Language , February 1, 1990 , v7 n2 p59-67, 7 Pages

ISSN: 0749-2839 Languages: English

Document Type: Feature Articles and News

C program

Geographic Location: United States

Presents several advanced debugging techniques which locate bugs quickly. Discusses the use of code patch to test fix, global breakpoints, conditional global breakpoints, instrumenting code, and complex break conditions. Includes six program listings. (jb)

Descriptors: Debugging; Strategy; Bugs; Programming Instruction; Program Listing

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12/5/42 (Item 2 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
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1219094 H.W. WILSON RECORD NUMBER: BAST95014553

Debugging embedded software
Cipriani, Dave;
Electronic Design v. 43 (Jan. 23 '95) p. 103-4+

DOCUMENT TYPE: Feature Article ISSN: 0013-4872 LANGUAGE: English
RECORD STATUS: New record

ABSTRACT: Part of a special section on engineering software for software design engineers. A cost-effective environment for debugging can be created by matching the correct tools with the job. The cornerstone of the software-development environment is the source-level debugger. A developer's window into the target system, the debugger offers an abstracted view of program execution. The debugger's minimum requirements include the ability to load code, monitor variables, alter memory using symbolic names and high-level expressions, display source code, and set breakpoints. Debuggers integrated with an operating system have knowledge of the operating - system data structures, enabling the engineer to monitor when tasks are entered and exited. Choosing a debugger that can control different execution vehicles provides a consistent interface throughout product development. The advantages and disadvantages of debugging tools such as simulators, full-featured emulators, N-wire emulators, logic analyzers, and ROM monitors are considered.

DESCRIPTORS: Emulators (Computers); Software development--Costs; Debug tools (Computer programs); 12/5/55 (Item 11 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
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00586240 E92073284010

Specification and detection of global breakpoints in distributed systems

 $(\bar{S}_{\mathrm{pezifikation}})$ und Feststellung globaler Breakpoints in verteilten Systemen

Haban, D; Zhou, S; Maurer, D; Wilhelm, R Univ. des Saarlandes, Saarbruecken, D 1991

Document type: Report Language: English

Record type: Abstract

ABSTRACT:

Writing and debugging asynchronous parallel programs is a painful experience. Verification methods are even less developed and of less practical use than in the sequential case. Static analyzers and dynamic debuggers for such programs are rare. Setting breakpoints are important features of any debugging system. The authors will refer to these breakpoints as global breakpoints . Due to the inherent features of distributed systems, these systems are characterized by lack of adequate central control, precise global time and accurate global state. Thus, specification of global breakpoints, their detection and finally halting the distributed system in a meaningful global state are major problems. They propose a specification language for global breakpoints and describe its logical semantics. The formal model of a detection mechanisms and its implementation are given and solutions to the halting of distributed systems are discussed. The distributed debugging system has been implemented and successfully used to debug distributed programs running on six M68000 computers.

DESCRIPTORS: PARALLEL PROGRAMMING; PROGRAM DEVELOPMENT; PROGRAM VERIFICATION; COMPUTER ARCHITECTURE; PROCESSORS; PARALLEL PROCESSORS; TEST AID PROGRAM

IDENTIFIERS: Parallelprogrammierung; Debugger; Breakpoint

Set	Items	Description
S1	37034	OPERATING()SYSTEM OR OS OR KERNEL OR OS2 OR LINUX OR UNIX
S2	11924	DEBUG? OR DE() (BUGGER OR BUGGING OR BUG OR BUGS) OR BREAKP-
52		NT OR EMULATOR?
S3	36	EXECUTABLE() IMAGE?
S4	1791609	EMBED? OR WITHIN OR INTEGRAT? OR INTEGRAL OR BUILT()"IN"
S5	2	(GLOBAL OR UNIVERSAL) (N) (BREAKPOINT? OR BREAK() POINT? ?)
S6	1205	1 AND S2 AND S4
S7	4	S1 AND (S3 OR S5)
S8	19	S2(2N)S4 AND S1
S9	23	S7 OR S8
S10	24	S9 OR S5
S11	24	IDPAT (sorted in duplicate/non-duplicate order)
S12	23	IDPAT (primary/non-duplicate records only)
File	347:JAPIO	Nov 1976-2004/May(Updated 040903)
	(c) 20	04 JPO & JAPIO
File	350:Derwen	t WPIX 1963-2004/UD,UM &UP=200457
	(c) 20	04 Thomson Derwent

12/5/7 (Item 7 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv.

014736446 **Image available** WPI Acc No: 2002-557150/200259

XRPX Acc No: NO2-441058

breakpoint insertion method for debugging software, involves detecting private copy of page after reading from memory and inserting breakpoint in detected private copy

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC

Inventor: BHATTACHARYA S; KRISHNAMOORTHY A; SANGAVARAPU V K

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Date Week Kind Date Applicat No Kind US 20020073402 A1 20020613 US 2000732342 Α 20001207 200259 B

Priority Applications (No Type Date): US 2000732342 A 20001207 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes US 20020073402 A1 13 G06F-009/44

Abstract (Basic): US 20020073402 A1

NOVELTY - A global breakpoint is inserted in a page containing software code after reading the page in a memory. The global breakpoint is inserted in the detected private copy of the page. DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) Computer-implemented apparatus for inserting global

breakpoint;

(2) Computer program product for inserting global breakpoints;

(3) Global breakpoint removal method;

(4) Computer-implemented apparatus for removing global

breakpoint; and

(5) Computer program product of removing global breakpoint . USE - For debugging computer software in operating system such as Linux e.g. SUN, HP and AIX for computer system, connected to LAN, WAN, Internet, intranet.

ADVANTAGE - Enables handling elegantly, consistently and seamlessly of the problem of inserting and removing global breakpoints with minimum overhead, hence facilitates the OS to maintain sufficient information effectively.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the operating system .

pp; 13 DwgNo 1/3

Title Terms: GLOBE; INSERT; METHOD; DEBUG; SOFTWARE; DETECT; PRIVATE; COPY; PAGE; AFTER; READ; MEMORY; INSERT; GLOBE; DETECT; PRIVATE; COPY

Derwent Class: T01

International Patent Class (Main): G06F-009/44

File Segment: EPI

12/5/17 (Item 17 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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010064945 **Image available**
WPI Acc No: 1994-332656/199441

XRPX Acc No: N94-261196

Computer system having integrated source level debugging functions - has system management handler executing resume instruction to continue execution with interrupted program upon exiting integrated debugger

Patent Assignee: INTEL CORP (ITLC)

Inventor: YUEN D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 5357628 A 19941018 US 92858301 A 19920325 199441 B
US 93138894 A 19931019

Priority Applications (No Type Date): US 92858301 A 19920325; US 93138894 A 19931019

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 5357628 A 7 G06F-011/00 Cont of application US 92858301

Abstract (Basic): US 5357628 A

Debugging is performed under SMM with the **integrated debugger** which is stored with the SMI handler in the SMRAM and given control after the SMI handler has gotten control and determined in its initial processing that the SMI handler has gotten control as a result of a SMI triggered by a debugging request.

The SMI handler gets control after the computer system is put into SMM in response to the SMI. Upon exiting the integrated debugger, the SMI handler executes the RSM instruction to continue execution with

the interrupted program.

ADVANTAGE - Debugging may be performed with the actual hardware in its normal operating speed, and yet debugging functions and usability matching or exceeding that of a software emulator may be provided. Additionally, debugging may be performed in a manner that is transparent to the **operating** system and the application programs.

Title Terms: COMPUTER; SYSTEM; INTEGRATE; SOURCE; LEVEL; DEBUG; FUNCTION; SYSTEM; MANAGEMENT; HANDLE; EXECUTE; RESUME; INSTRUCTION; CONTINUE; EXECUTE; INTERRUPT; PROGRAM; EXIT; INTEGRATE

Derwent Class: T01

International Patent Class (Main): G06F-011/00

File Segment: EPI

(Item 21 from file: 347) 12/5/21 DIALOG(R) File 347: JAPIO (c) 2004 JPO & JAPIO. All rts. reserv.

Image available 06513647 METHOD FOR DEBUGGING DEVICE DRIVER

2000-099364 [JP 2000099364 A] PUB. NO.:

April 07, 2000 (20000407) PUBLISHED:

INVENTOR(s): NOGUCHI SEIJI

APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD

APPL. NO.: 10-283267 [JP 98283267] September 18, 1998 (19980918)

FILED:

INTL CLASS: G06F-011/28

ABSTRACT

PROBLEM TO BE SOLVED: To enable debugging without preparing any dedicated debugging object device driver and changing any internal code by monitoring a request packet to be dispatched from an operating system (OS) to the debugging object device driver and controlling the output of input/output data.

SOLUTION: When a computer is activated, an OS 4 and a debugging object device driver 6 are integrated onto an internal RAM 2. Next, a device driver 5 for debugging is integrated onto the RAM 2 and during that integrating processing, processing is performed for hooking the entry routine of the debugging object device driver 6. Then, this method uses a device driver 5 for debugging provided with a method for controlling the output of output data by monitoring the request packet to be dispatched from the os 4 to the debugging object device driver 6.

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12/5/3 (Item 3 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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015572611 **Image available**
WPI Acc No: 2003-634768/200360

XRPX Acc No: N03-504820

Java application debugging method in corporate network, internet, involves debugging Java code and native language dynamic load libraries simultaneously using different application programming interfaces

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: EVANS D H; GAY C J; SCHERK A P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 20020129337 A1 20020912 US 2001801589 A 20010308 200360 B

Priority Applications (No Type Date): US 2001801589 A 20010308

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20020129337 A1 25 G06F-009/44

Abstract (Basic): US 20020129337 A1

NOVELTY - The Java code and native language dynamic load libraries of application (17) are simultaneously debugged using Java platform debugger architecture virtual machine debug application programming interface (API) and **operating system** debug API, respectively, while executing application under Java virtual machine (16).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the

following:

(1) computer readable medium storing application debugging program; and $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) =\frac{1$

(2) computer.

USE - For debugging Java application comprising Java code and native language dynamic load libraries e.g. C or C++ code, using computer software development tools for development of Java application program for use in corporate network and internet.

ADVANTAGE - Provides new functionality such as patching of Java variables, reading and writing strings from and to application under test and stability for JAVA application program development, testing

and debugging.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the **debugger** system within single computer system.

graphical user interface (11)

engine (12)

Java virtual machine (16)

application(41) interactive code analysis tool probe (17)

pp; 25 DwgNo 1/15

Title Terms: APPLY; DEBUG; METHOD; NETWORK; DEBUG; CODE; NATIVE; LANGUAGE; DYNAMIC; LOAD; SIMULTANEOUS; APPLY; PROGRAM; INTERFACE

Derwent Class: T01

International Patent Class (Main): G06F-009/44

File Segment: EPI

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        11924
            OINT OR EMULATOR?
S3
           36
               EXECUTABLE()IMAGE?
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S4
     1791609
               (GLOBAL OR UNIVERSAL) (N) (BREAKPOINT? OR BREAK() POINT? ?)
S5
$6
        1205
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S7
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S16
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S17
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                S1 AND S2 AND S4 AND S17
S19
          23
               S19 NOT S11
          15
S20
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File 350:Derwent WPIX 1963-2004/UD, UM &UP=200457
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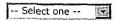
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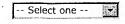
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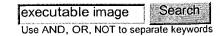
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S1 3 GLOBAL()BREAKPOINT AND EXECUT?()IMAGE?
File 654:US Pat.Full. 1976-2004/Sep 09
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1/TI/1
DIALOG(R)File 654:(c) Format only 2004 The Dialog Corp. All rts. reserv.

Communications system using rings architecture

1/TI/2 DIALOG(R)File 654:(c) Format only 2004 The Dialog Corp. All rts. reserv.

Method for inserting global breakpoints

1/TI/3
DIALOG(R)File 654:(c) Format only 2004 The Dialog Corp. All rts. reserv.

Superscalar microprocessor employing away prediction structure

```
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*** format unless you enter the SET DETAIL ON command. ***

?set files all

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(To see banners, use SHOW FILES command)

?s global()breakpoint and execut?()image?
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Your SELECT statement is: s global()breakpoint and execut?()image?

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